## **EXHIBIT B**

## **Pending Claims**

38. (Amended) A recombinant DNA molecule comprising the portion of a DNA sequence selected from the group consisting of the following subcloned fragments that hybridizes to at least one of the DNA inserts of Z-pBR322 (Pst)/HcIF-II-206 and Z-pBR322 (Pst)/HcIF-SN35-AHL6:

HchrIF-A, the subcloned <u>HindIII</u> fragment of chr 3 in <u>E.coli</u> HB101;

HchrIF-B, the subcloned <u>EcoRI</u> fragment of chr 12 in <u>E.coli</u> HB101;

HchrIF-C, the subcloned <u>HindIII</u> fragment of chr 12 in <u>E.coli</u> HB101;

HchrIF-D, the subcloned <u>EcoRI</u> fragment of chr 13 in <u>E.coli</u> HB101;

HchrIF-E, the subcloned <u>EcoRI</u> fragment of chr 23 in <u>E.coli</u> HB101;

HchrIF-F, the subcloned <u>HindIII</u> fragment of chr 23 in <u>E.coli</u> HB101;

HchrIF-G, the subcloned <u>EcoRI</u> fragment of chr 26 in <u>E.coli</u> HB101; and

HchrIF-H, the subcloned <u>HindIII</u> fragment of chr 26 in <u>E.coli</u> HB101.

40. (Amended) A recombinant DNA molecule comprising a DNA sequence selected from the group consisting of DNA sequences of the formula:

TTACTGGTGGCCCTCCTGGTGCTCAGCTGCAAGTCAAGCTGCTCTGTGGGCTGTGAT
CTGCCTCAAACCCACAGCCTGGGTAGCAGGAGGACCTTGATGCTCCTGGCACAGATG
AGGAGAATCTCTCTTTTCTCCTGCTTGAAGGACAGACATGACTTTGGATTTCCCCAG

and

41. (Amended) A recombinant DNA molecule comprising a DNA sequence selected from the group consisting of DNA sequences of the formula:

42. (Amended) The recombinant DNA molecule according to any one of claims 38, 40 and 41, wherein said DNA sequence is operatively linked to an expression control sequence.

- 43. The recombinant DNA molecule according to claim 42, wherein said expression control sequence controls the expression of genes of prokaryotic or eukaryotic cells and their viruses.
- 44. The recombinant DNA molecule according to claim 43, wherein said expression control sequence is selected from the group consisting of a <u>lac</u> system, a  $\beta$ -lac system, a <u>trp</u> system, major operator and promoter regions of phage  $\lambda$ , and the control region of fd coat protein.
- 45. (Amended) A recombinant DNA molecule selected from the group consisting of C8-IFN- $\alpha$ 2, LAC-AUG( $\alpha$ 2) and  $\beta$ -lac-AUG( $\alpha$ 2).
- 46. (Amended) A host cell transformed with at least one recombinant DNA molecule according to any one of claims 38 and 40-45.
- 47. The host cell of claim 46 selected from the group consisting of bacteria, yeasts, mouse or other animal hosts, and human tissue cells.
- 48. (Amended) A transformed host cell, wherein said host cell is <u>E.coli</u> HB101(Z-pBR322(Pst)/HcIF-II-206).
- 49. (Amended) A transformed host cell selected from the group consisting of HchrIF-A, wherein HchrIF-A is the subcloned <u>HindIII</u> fragment of chr 3 in <u>E.coli</u> HB101; HchrIF-B, wherein HchrIF-B is the subcloned <u>EcoRI</u> fragment of chr 12 in <u>E.coli</u> HB101; HchrIF-C, wherein HchrIF-C is the subcloned <u>HindIII</u> fragment of chr 12 in <u>E.coli</u> HB101;

HchrIF-D, wherein HchrIF-D is the subcloned <u>EcoRI</u> fragment of chr 13 in <u>E.coli</u> HB101; HchrIF-E, wherein HchrIF-E is the subcloned <u>EcoRI</u> fragment of chr 23 in <u>E.coli</u> HB101; HchrIF-F, wherein HchrIF-F is the subcloned <u>HindIII</u> fragment of chr 23 in <u>E.coli</u> HB101; HchrIF-G, wherein HchrIF-G is the subcloned <u>EcoRI</u> fragment of chr 26 in <u>E.coli</u> HB101; and HchrIF-H, wherein HchrIF-H is the subcloned HindIII fragment of chr 26 in <u>E.coli</u> HB101.

50. (Amended) A transformed host cell selected from the group consisting of E.coli DS410 (C8-IFN-α2), E.coli DS410 (LAC-AUG(α2)) and E.coli DS410 HB101 (βlac-AUG(α2)).

51. (Amended) A method for producing a recombinant DNA molecule comprising a DNA sequence selected from the group consisting of DNA sequences of the formula:

and

comprising the step of culturing a host cell containing at least one recombinant DNA molecule of claim 40 or 41 under conditions in which the host cell replicates the recombinant DNA molecule.

54. A DNA sequence coding for an  $\alpha$ -type interferon selected from the group consisting of DNA sequences of the formula:

TTACTGGTGGCCCTCCTGGTGCTCAGCTGCAAGTCAAGCTGCTCTGTGGGCTGTGAT
CTGCCTCAAACCCACAGCCTGGGTAGCAGGAGGACCTTGATGCTCCTGGCACAGATG
AGGAGAATCTCTCTTTTCTCCTGCTTGAAGGACAGACATGACTTTGGATTTCCCCAG
GAGGAGTTTGGCAACCAGTTCCAAAAAGGCTGAAACCATCCCTGTCCTCCATGAGATG
ATCCAGCAGATCTTCAATCTCTTCAGCACAAAAGGACTCATCTGCTGCTTGGGATGAG
ACCCTCCTAGACAAATTCTACACTGAACTCTACCAGCAGCTGAATGACCTGGAAGCC
TGTGTGATACAGGGGGTGGGGGTGACAGAAGACTCCCCTGATGAAGGAGGACTCCATT
CTGGCTGTGAGGAAATACTTCCAAAGAATCACTCTCTATCTGAAAGAGAAAAATAC

AGCCCTTGTGCCTGGGAGGTTGTCAGAGCAGAAATCATGAGATCTTTTTCTTTGTCA ACAAACTTGCAAGAAAGTTTAAGAAGTAAGGAA

and

55. A DNA sequence coding for an  $\alpha$ -type interferon selected from the group consisting of DNA sequences of the formula:

56. (Added) A method for producing a DNA molecule comprising a DNA sequence encoding an α-type interferon comprising the step of culturing a host cell containing a DNA molecule comprising the DNA sequence of claim 54 or 55 under conditions in which the host cell replicates the DNA molecule.